

Learning to Fly: The Wright Brother's Adventure			
2006 21st Century Science			
Standards and Objectives			
West Virginia 21st Century Science			
Grade 6			
Activity/Lesson	State	Standards	
The Society	WV	SCI.6.SC.O.6.1.04	compare and contrast the historical significance of scientific discoveries.
The Society	WV	SCI.6.SC.O.6.1.05	cooperate and collaborate to ask questions, design and conduct investigations to find answers and solve problems.
The Society	WV	SCI.6.SC.O.6.1.10	utilize experimentation to demonstrate scientific processes and thinking skills (e.g., formulating questions, predicting, forming hypotheses, quantifying, or identifying dependent and independent variables).
1901: The First Improvement	WV	SCI.6.SC.O.6.2.22	apply the effects of balanced and unbalanced forces on motion of objects.
1901: The First Improvement	WV	SCI.6.SC.O.6.3.02	construct a variety of useful models of an object, event, or process.
New Data	WV	SCI.6.SC.O.6.1.01	realize that scientists formulate and test their explanations of nature using observation and experiments.
New Data	WV	SCI.6.SC.O.6.1.08	use a variety of technologies and scientific instruments to conduct explorations, investigations and experiments of the natural world.
New Data	WV	SCI.6.SC.O.6.1.10	utilize experimentation to demonstrate scientific processes and thinking skills (e.g., formulating questions, predicting, forming hypotheses, quantifying, or identifying dependent and independent variables).
1902: Success at Last	WV	SCI.6.SC.O.6.3.02	construct a variety of useful models of an object, event, or process.
1903: Powered Flight	WV	SCI.6.SC.O.6.1.11	construct and use charts, graphs and tables to organize, display, interpret, analyze and explain data.
1905: Complete a Flight at Last	WV	SCI.6.SC.O.6.1.04	compare and contrast the historical significance of scientific discoveries.
Learning to Fly: The Wright Brother's Adventure			
2006 21st Century Science			
Standards and Objectives			
West Virginia 21st Century Science			
Grade 7			
Activity/Lesson	State	Standards	
The Society	WV	SCI.7.SC.O.7.1.04	compare and contrast the historical significance of scientific discoveries.

The Society	WV	SCI.7.SC.O.7.1.05	cooperate and collaborate to ask questions, design and conduct investigations to find answers and solve problems.
Wright Brothers: 1900 Glider	WV	SCI.7.SC.O.7.3.02	construct a variety of useful models of an object, event, or process.
New Data	WV	SCI.7.SC.O.7.1.01	realize that scientists formulate and test their explanations of nature using observation and experiments.
1903: Powered Flight	WV	SCI.7.SC.O.7.1.11	construct and use charts, graphs and tables to organize, display, interpret, analyze and explain data.
Learning to Fly: The Wright Brother's Adventure			
2006 21st Century Science			
Standards and Objectives			
West Virginia 21st Century Science			
Grade 8			
Activity/Lesson	State	Standards	
The Society	WV	SCI.8.SC.O.8.1.07	design, conduct, evaluate and revise experiments (e.g., compose a question to be investigated, design a controlled investigation that produces numeric data, evaluate the data in the context of scientific laws and principles, construct a conclusion based on findings, propose revisions to investigations based on manipulation of variables and/or analysis of error, or communicate and defend the results and conclusions).
New Data	WV	SCI.8.SC.O.8.1.01	formulate scientific explanations based on historical observations and experimental evidence, accounting for variability in experimental results.
New Data	WV	SCI.8.SC.O.8.1.04	conduct and/or design investigations that incorporate the skills and attitudes and/or values of scientific inquiry (e.g., established research protocol, accurate record keeping, replication of results and peer review, objectivity, openness, skepticism, fairness, or creativity and logic).
1902: Success at Last	WV	SCI.8.SC.O.8.1.08	draw conclusions from a variety of data sources to analyze and interpret systems and models (e.g., use graphs and equations to measure and apply variables such as rate and scale, evaluate changes in trends and cycles, predict the influence of external variances such as potential sources of error, or interpret maps).

1903: Powered Flight	WV	SCI.8.SC.O.8.1.06	use appropriate technology solutions within a problem solving setting to measure and collect data; interpret data; analyze and/or report data; interact with simulations; conduct research; and present and communicate conclusions.
1904: Improvement in Dayton	WV	SCI.8.SC.O.8.3.03	communicate experimental designs, results and conclusions using advanced technology tools.